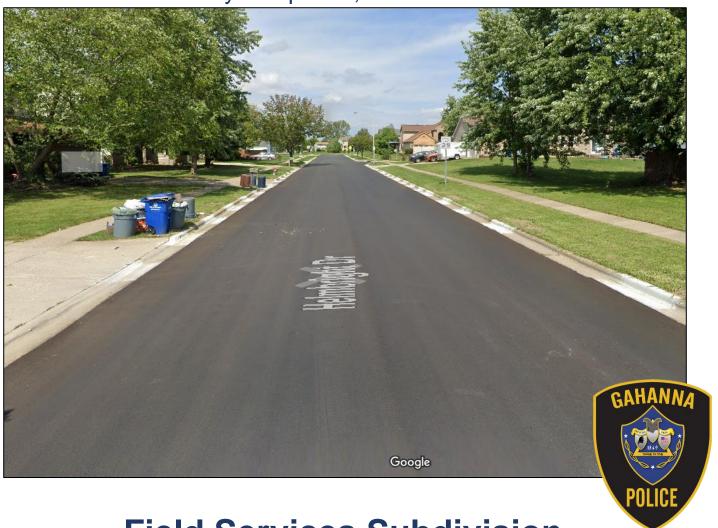
Gahanna Division of Police

Jeffrey B. Spence, Chief of Police



Field Services Subdivision

Traffic Survey Helmbright Drive 08-25-21 to 09-13-21

460 Rocky Fork Blvd.
Gahanna, Ohio 43230
614-342-4240
WWW.GAHANNA.GOV

Survey Device: Speed Monitoring and Notification Device (SMND) # 1129

Survey Operator: Lt. Ethan Moffitt # L-58

Device Location: Helmbright Drive south of Hunters Glen Drive

Device Direction: Facing northbound traffic (approaching Schillingwood Drive & Middle

School South/Lincoln Elementary school zone)

Speed Limit: 25 MPH

Survey Dates: 08-25-21 to 09-13-21

Survey Reason: Speed mitigation, school zone awareness, and to promote awareness of

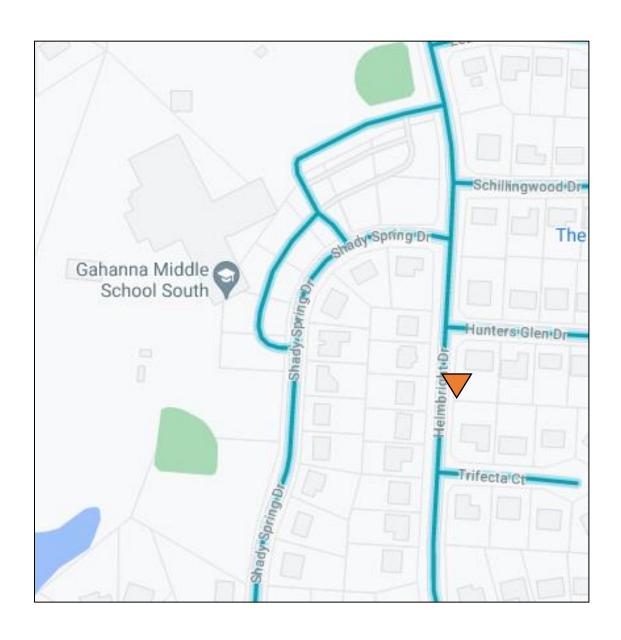
new stop sign at Schillingwood Drive

Summary -

On 08-25-21, SMND # 1129 was deployed on Helmbright Drive, a location associated with previous community reports of excessive speed. This location is on approach to a school zone for Gahanna Middle School South and Gahanna Lincoln Elementary. A new stop sign was placed on Helmbright Drive at Schillingwood Drive as a result of the reconfiguration of the school driveway ingress/egress.

The SMND recorded the speed of 51,298 vehicles (combined northbound and southbound traffic). Of those, 15,047, or 29%, were traveling in excess of the posted speed limit and 36,251, or almost 71%, were traveling below the speed limit. The average speed was 22.4 MPH. The 85th percentile speed was 27 MPH, meaning that 85% of the vehicles were traveling at a speed of 27 MPH or less.

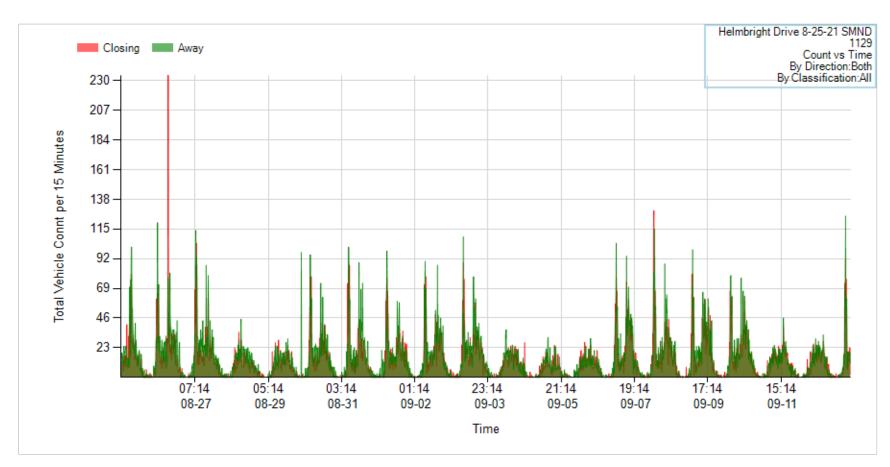
Three hundred and ninety-six vehicles were traveling in excess of 35 MPH, accounting for less than 1% of the total count (51,298) and 2.6% of the over-limit count (15047). Conversely, more than 97% of vehicles traveling above the speed limit were going between 26 and 35 MPH. The survey results demonstrate that the presence of the SMND was an effective mitigation measure. There was substantial compliance with the posted speed limit during the deployment period and few excessive speed violations.







Count vs. Time

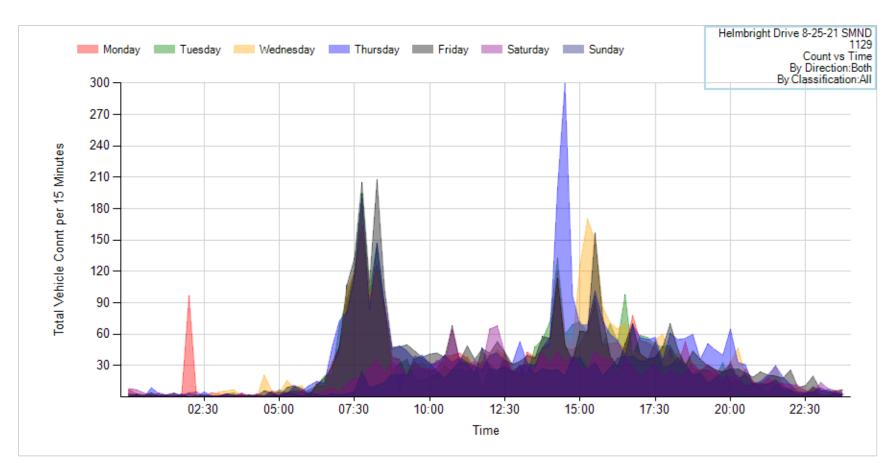


Survey Name	Helmbright Drive 8-25-21	Speed Unit	Miles/Hour	Average Speed	22.4	MPH	Total Volume	51298	100%
Start Date	2021-08-25	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	15047	29.3%
Stop Date	2021-09-13			Min Speed	10	MPH	Under Limit Count	36251	70.7%
				85th Percentile	27	MPH	Over Threshold Count	396	0%
				10 MPH Pace	18 - 27	MPH	In Pace Count	31853	62.1%





Weekly Count vs. Time

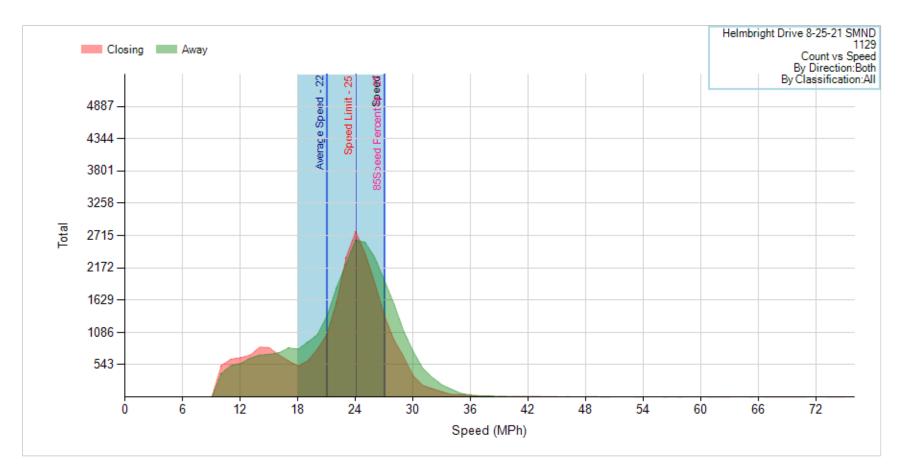


Survey Name	Helmbright Drive 8-25-21	Speed Unit	Miles/Hour	Average Speed	22.4	MPH	Total Volume	51298	100%
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				85th Percentile	27	MPH	Over Threshold Count	396	0%
				10 MPH Pace	18 - 27	MPH	In Pace Count	31853	62.1%





Count vs. Speed

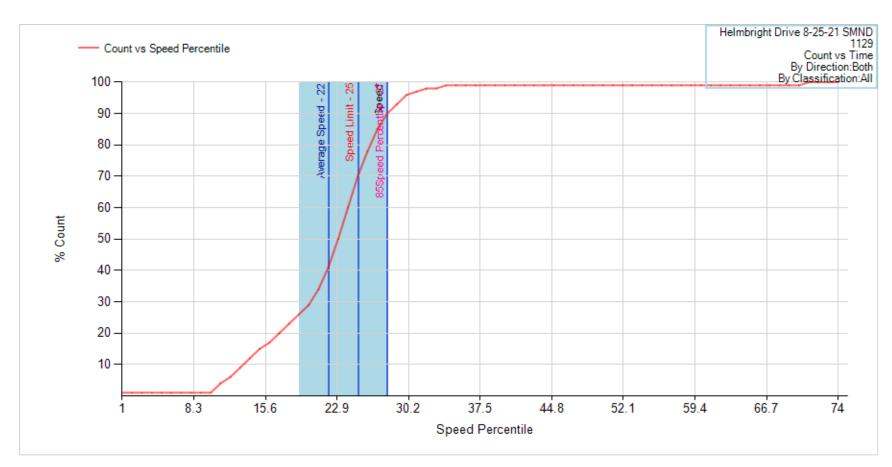


Survey Name	Helmbright Drive 8-25-2	1 Speed Unit	Miles/Hour	Average Speed	22.4	MPH	Total Volume	51298	100%
Start Date	2021-08-25	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	15047	29.3%
Stop Date	2021-09-13			Min Speed	10	MPH	Under Limit Count	36251	70.7%
				85th Percentile	27	MPH	Over Threshold Count	396	0%
				10 MPH Pace	18 - 27	MPH	In Pace Count	31853	62.1%





Percentile Chart

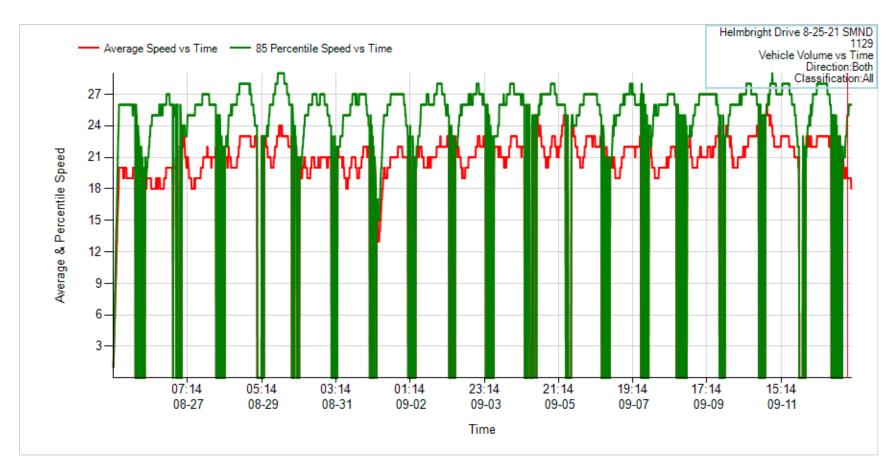


Survey Name	Helmbright Drive 8-25-21	1 Speed Unit	Miles/Hour	Average Speed	22.4	MPH	Total Volume	51298	100%
Start Date	2021-08-25	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	15047	29.3%
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Average Speed vs. Time

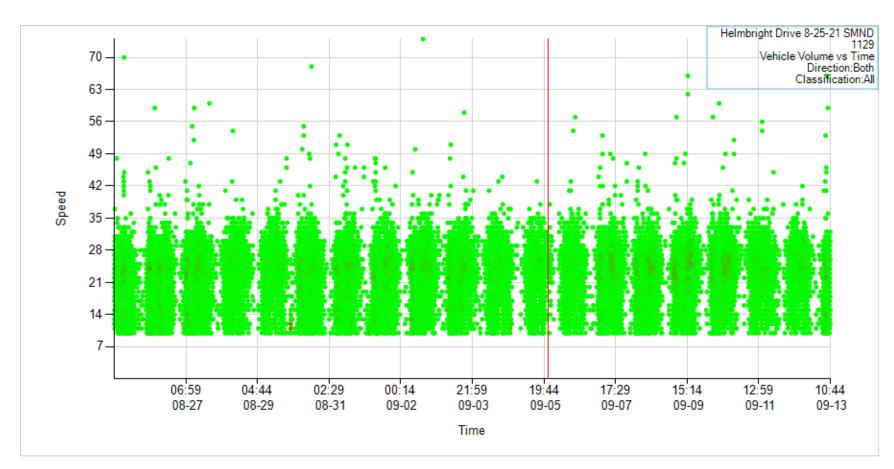


Survey Name	Helmbright Drive 8-25-21	Speed Unit	Miles/Hour	Average Speed	22.4	MPH	Total Volume	51298	100%
Start Date	2021-08-25	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	15047	29.3%
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				85th Percentile	27	MPH	Over Threshold Count	396	0%
				10 MPH Pace	18 - 27	MPH	In Pace Count	31853	62.1%





Speed vs. Time Bubble Chart

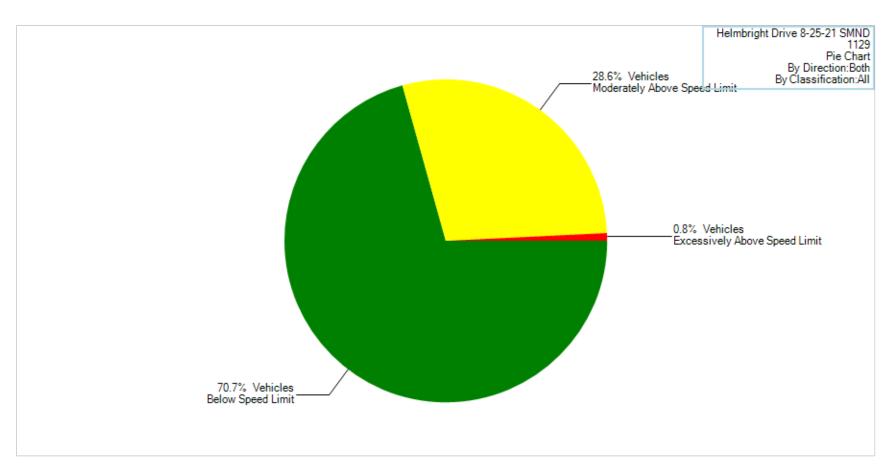


Survey Name	Helmbright Drive 8-25-2	1 Speed Unit	Miles/Hour	Average Speed	22.4	MPH	Total Volume	51298	100%
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				85th Percentile	27	MPH	Over Threshold Count	396	0%
				10 MPH Pace	18 - 27	MPH	In Pace Count	31853	62.1%





Enforcement



Survey Name	Helmbright Drive 8-25-21	Speed Unit	Miles/Hour	Average Speed	22.4	MPH	Total Volume	51298	100%
Start Date	2021-08-25	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	15047	29.3%
Stop Date	2021-09-13			Min Speed	10	MPH	Under Limit Count	36251	70.7%
				85th Percentile	27	MPH	Over Threshold Count	396	0%
				10 MPH Pace	18 - 27	MPH	In Pace Count	31853	62.1%

Survey Name	Helmbright Drive 8-25-21 SM	Location	373 Helmbright Drive, Gahann	Speed Unit	Miles/Hour
Start	2021-08-25 09:14	Traffic Direction	Undefined	Speed Limit	25
Stop	2021-09-13 10:47	Zone	Nomal	Min Speed Threshold	10
Operator	000	Min Following Time	0.0	Max Speed Threshold	120
Survey Direction	Both	Time Resolution	1	Speed Resolution	1

Total Vehicle Connt	51298	100%	Average Speed	22.4	MPH	In Pace Count	31853	62%
Under Limit Count	36251	70%	Minimum Speed	10	MPH	10 mph Pace	18 - 27	MPH
Over Limit Count	15047	30%	Maximum Speed	74	MPH	Standard Deviation	5	MPH
10 Over Limit Count	396	0%	85Speed Percentile	27	MPH	Average Speed Over Limit	28.2	MPH



Survey Report Quick Guide/Reference

Over Threshold Count

The default threshold (amount over the posted speed limit) is 10 MPH. The **Over Threshold Count** is the number of vehicles traveling in excess of the selected threshold. For example, if the threshold is set at the 10 MPH default, this would indicate the number of vehicles (within the Total Volume) that were traveling at 10 MPH over the posted limited.

Count vs. Time

The **Count vs Time Chart** shows the number of vehicles per unit of time traveling on the monitored roadway.

Weekly Count vs. Time Chart

The **Weekly Count vs. Time Chart** mode shows the vehicle count per day over a 7-day period. If the survey period extends beyond one 7- day week, the values of each overlapped week day will be the average values for those overlapped week days.

Count vs. Speed Chart

The **Count vs. Speed Chart** selection shows the total vehicle count for each speed group. The size of the speed group can be set by the operator (**Speed Resolution** selection in the **Analysis Control**).

Percentile Chart

The **Percentile Chart** shows the cumulative percentage of vehicles that are at or below a given speed

Average Speed vs. Time Chart

The **Average Speed vs. Time Chart** shows the average and the 85th Percentile Speeds of the vehicles over time.

Speed vs. Time Bubble Chart

The **Speed vs. Time Bubble Chart** plots both vehicle speed and volume against time. The size of the bubble represents the number of cars at a particular speed group at a particular time. This chart is useful in showing traffic bunching.

Average Speed

The average speed of all vehicles

85Speed Percentile

The speed at which 85% of the traffic was traveling **at or less than**. The 85th percentile is considered to be a key metric because it is generally considered to representative of prevailing traffic conditions (the speed vehicles on the roadway are going most of the time).